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Quarterly Report

Date of Report: 15 April 2007

Contract Number: DTPH56-05-T-0003

Prepared for: United States Department of Transportation
Pipeline and Hazardous Materials Safety Administration
Office of Pipeline Safety

Project Title: "Consolidated Research and Development Program to Assess the Structural Significance of Pipeline Corrosion"

Prepared by: Mr. Vinod Chauhan
Principal Investigator
Advantica, Inc.
Ashby Rd.
Loughborough, LE11 3GR, England
vinod.chauhan@advanticagroup.com

Mr. Ian Wood
Team Project Manager
Electricore, Inc.
27943 Smyth Drive, Suite 105
Valencia, CA 91355
ian@electricore.org

Mr Scott Thetford
Team Technical Coordinator
Pipeline Research Council International, Inc.
1401 Wilson Blvd, Suite 1101
Arlington, VA 22209
sthetford@prci.org

For quarterly period ending: March 31, 2007

Progress to Date

In this quarter, ring expansion tests have been completed to generate stress versus strain curves for 52-inch diameter grade X100 pipe. Tests have also been undertaken on three (out of four) 48-inch diameter rings.

For the successfully completed 52-inch ring expansion tests, both strain gages and tape extensometers were used to obtain stress versus strain curves up to about 0.5% strain values.

A contract with an external test house has now been let to undertake a program of tensile tests on 52" and 48" diameter grade X100 pipe using miniature (approximately 0.5mm thick) tensile specimens. Ten specimens thru the pipe thickness will be extracted using electrical discharge machining (EDM). The principal investigator (Vinod Chauhan) visited the test house on 29 March 2007 and witnessed some tensile tests being undertaken. 120 tensile tests are scheduled to be undertaken using 52" and 48" diameter pipe. Testing is running to time and schedule.

Payable Milestones

The following payable milestones were completed during this reporting period:

- Peer Review
- Ring expansion tests on 48-inch diameter X100 pipe (results to be investigated further, including a review with BP Exploration)
- Ring expansion tests on 52-inch diameter X100 pipe
- Eighth Quarterly Status Report Submitted